



# SI 30

## PROXIMITY INDUCTIVE SENSORS



### Main characteristics



SI30 is a proximity electronic switch based on the induction principle. Electric current generates a magnetic field, which collapses generating a current that falls asymptotically toward zero from its initial level when the input electricity ceases. The inductance of the loop changes according to the material inside it and since metals are much more effective inductors than other materials the presence of metal increases the current flowing through the loop. This change can be detected by sensing circuitry. Thanks to its high operating frequency, SI30 and SS30 represent a great solution in most mechanical application for automation when objects are moving fast.

Inductive sensors

### Ordering code

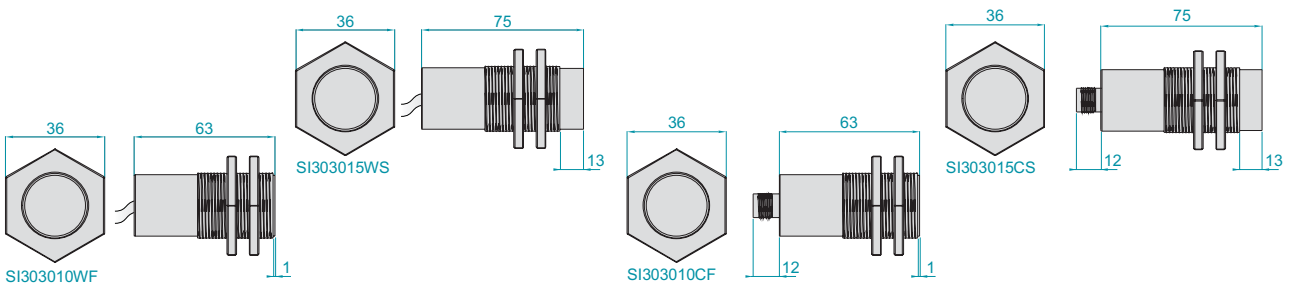
S	I	30	3	0	10	C	F	P	0
sensor S	Model I	Diameter $\varnothing$ 30 mm 30	Max power supply 30 Vdc 3	Sensing distance 10 mm (with F version) 10 15 mm (with S version) 15	Output type connector C cable W	Version flush F noflush S	Output electronic PNP P NPN N	Output configuration NO 0 NC C	

### Technical Specifications

Model	standard
Version	flush or noflush
Output type	connector or cable
Output electronic	PNP or NPN
Output configuration	NO or NC
Sensing distance	10 mm $\pm$ 15% max (flush) 15 mm $\pm$ 15% max (noflush)
Standard object detected	30x30x1 mm (stainless steel)
Power supply	10÷30 Vdc $\pm$ 10%
Voltage dropout	3 V
Maximum current without load	15 mA max
Output current	200 mA max
Protection class	IP67
Working temperature	-25÷70 °C
Resistance insulation	>50 M $\Omega$
Switching frequency	100 Hz
Protection against polarity inversion	yes
Housing material	metal

### Mechanical dimensions

dimensions: mm



SI30



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